PHASE I BOOK EXPLOITATION SOV/3342

Vserossiyskaya konferentsiya professorov i prepodavateley pedagogicheskikh institutov.

Primeneniye ul'traakustiki k issledovaniyu veshchestva; trudy konferentsii, vyp. 9 (Application of Ultrasonics in the Study of Substances, No. 9) Moscow, Izd. MOPI, 1959. 245 p. Errata slip inserted. 1,000 copies printed.

Eds.: V. F. Nozdrev, Professor, and B. B. Kudryavtsev, Professor.

PURPOSE: This collection of articles is intended for scientists specializing in ultrasonics, and for those interested in the application of ultrasonics to the study of the properties of materials, and to the quality control of machined parts and structural elements.

COVERAGE: The collection constitutes the transactions of the All-Russian Conference of Professors and Teachers of Pedagogical Institutes. The articles report on recent theoretical and experimental investigations in the field of ultrasonics and discuss the application of ultrasonics to the study of

Card 1/7

Application of Ultrasonics (Cont.) SOV/3342

Application of Ultrasonics (Cont.) SOV/3342

Card 5/7

Kastorva, A. V.

KUSTOV, M. V.

PHASE I BOOK EXPLOITATION SOV/3207

Vsesoyuznaya konferentsiya professorov i prepodavateley pedagogicheskikh institutov.

Primeneniye ul'trazvukovykh issledovaniya veshchestva. (Utilization of Ultrasonics for the Investigation of Matter) Moscow, Izd. MGPI, 1960. 267 p. 1,000 copies printed. (Series: Its Trudy, vyp. 11)

Ed. (Title page): V.F. Nozdrev, Professor and B.B. Kudryavtsev, Professor.

PURPOSE: This collection of articles is intended for physicists specializing in the physics of ultrasound.

COVERAGE: The collection of articles contains the transactions of the VII Conference on the Application of Ultrasonics to the Study of Materials, which was held at the Moscow Oblast Pedagogical Institute imeni N.K. Krupskaya. Individual articles of the collection discuss various problems in the wave mechanics of ultrasound, the absorption and the propagation mechanics of ultrasonic waves in various media, the operating principle and design of generators and receivers of ultrasonic waves, the speed of sound and methods for its determination. Other articles deal with the application of ultrasonics to investigations of the properties of materials. No personalities are mentioned. References accompany most of the articles.

Table of Contents:

Card 1/7

S/194/62/000/004/072/105
D295/D308

AUTHOR: Kustova, A. V.

TITLE: Dynamic methods for the investigation of polymers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4-5-42v (V sb. Primeneniye ul'traakust. k issled. veshchestva. no. 13, M., 1961, 293-306)

TEXT: Methods of investigation of the dynamic properties of polymers are reviewed. The great importance of acoustical methods is emphasized. The connection between quantities measured in experiment and the characteristics of polymers is shown. The basic dynamic characteristics of polymers are found from general considerations. Kelvin-Voigt and Maxwell's models are used to show their connection with the structure of polymers. An analysis is given of the basic methods of investigation of the dynamical properties of polymers and their limits of applicability. It is shown that, in order to obtain a complete picture of the dynamic properties of

Card 1/2

Dynamic methods for ...

polymers, the use of several methods is needed. The basic dynamic characteristics are considered to be: The absolute value and the imaginary and real parts of the dynamic modulus of elasticity, the mechanical loss angle and the energy-dissipation coefficient. The use of polymer models enables the characteristics to be related to elasticity and viscosity. 40 references. [Abstracter's note: Complete translation.]

Card 2/2

S/058/63/000/001/075/120
A160/A101

15,9300

AUTHOR: Kustova, A. V.

TITLE: The effect of the structure of the space grid on the hysteresis losses in rubber

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 30, abstract 1E181 (In collection: "Primeneniye ultraakust. k issled. veshchestva", no. 16, M., 1962, 3 - 11)

TEXT: An investigation was conducted on the effect of the space-grid structure of non-filled rubber from natural caoutchouc on the magnitude tg δ in the region of low frequencies (25 - 100 cps) at small oscillation amplitudes. The magnitude of tg δ is determined by the method of free oscillations. The sample, having the form of a girder with a 5 x 6-mm^2 section, was vertically fastened between two plane-parallel plates and was unbalanced with a help of a motor rotating at a speed of 1 rev/sec. The oscillations of the free end of the sample were recorded by an oscillograph. The space-grid structure of the rubber was changed by changing the temperature (143 - 160°C) and the vulcaniza-

Card 1/2

tion time t_{vulc} (2 - 120 min). To determine the space grid of the rubber, a conditional module of elasticity and the magnitude of M_c were used, calculated by the swelling method. The curves of the relation between M_c and t_{vulc} pass through a minimum in all ranges of the temperatures investigated. It is shown that the highest density of the vulcanization grid corresponds to the minimum losses in the rubber. The observed results are explained within the framework of Patrikeyev's frame theory.

A. Sidorovich

[Abstracter's note: Complete translation]

S/081/63/000/003/035/036
B144/B106

AUTHOR: Kuntova, A. V.

TITLE: Effect of the structure of the space network on hysteresis losses in rubber

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 639, abstract 3T376 (Primeneniye ul'traakust. k issled. veshchestva, no. 16, M., 1962, 3-11)

TEXT: The effect of the structure of the space network of uncompounded rubber from natural rubber was studied on the value of the tangens of the angle, tan δ, of mechanic losses in the frequency range 25 - 100 cps at small vibration amplitudes. tan δ was determined by the method of free vibrations in the rubber sample according to the value of the logarithmic damping decrement. The structure of the space network was changed by varying the temperature (143 - 163°C) and the time (2 - 120 min) of vulcanization. The smallest tan δ and minimum hysteresis losses correspond to the most compact vulcanization network. When the compactness of the vulcanization network increases, the number of rubber molecule parts under

Card 1/2

elastic stress in deformation may increase. In the part under elastic stress hysteresis losses are absent. An increase in the number of these parts in the optimum vulcanization region leads to the least energy loss in the rubber when it works under dynamic conditions in the low-frequencies region. [Abstracter's note: Complete translation.]

Card 2/2

KUSTOVA, A.V.

Effect of the structure of the space lattice on the hysteresis losses in rubber. Prim.ul'treakust.k issl.veshch. no.16:3-11 '62. (MIRA 16:4)
(Rubber, Synthetic) (Hysteresis)

L 33337-66 EWT(1)/EWT(m)/EWP(j) IJP(c) GD/RM
ACC NR: AT6013392 (A) SOURCE CODE: UR/0000/62/000/000/0003/0011

38
B+1

AUTHOR: Kustova, A.V.

ORG: None

21

TITLE: Influence of space net structure on hysteresis losses in rubber

SOURCE: Moscow. Oblastnoy pedagogicheskiy institut. Primemeniye ul'traakustiki k issledovaniyu veshchestva, no. 16, 1962, 3-11

TOPIC TAGS: rubber, elastic hysteresis, elastic modulus, molecular weight, vulcanization

15 15

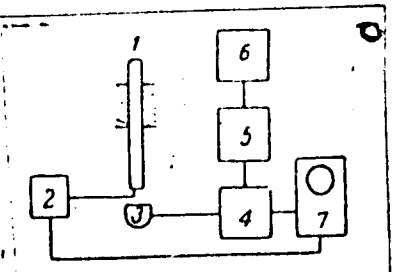
ABSTRACT: Influence of space net structure of rubber upon its elastic modulus and internal damping was investigated. For this purpose, the relations between average molecular weight of a molecular cell and internal damping was studied. The hysteresis loss per cycle, dW, is related to the angle, δ, of mechanical losses: $dW/W=2 \operatorname{tg}\delta$ (1) where W is the total work of the deformation cycle. The apparatus is shown in Fig. 1. Oscillations of the sample's free end were actuated by an arm of the shaft and evaluated. Natural unfilled rubber was used (smoked sheets - 100.0, sulphur - 3.0; ZnO - 5.0 captex - .7; stearic acid - 1.0). Fig.2 shows vulcanization time and frequency influence on $\operatorname{tg}\delta$. Fig. 3 - $\operatorname{tg}\delta$ dependence on molecular weight of a molecular cell at 50 cycles/second. Author thanks prof. B.B. Kudryavtsev and prof. G.A. Patrikeyev for aid and interest in this work.

Card 1/2

L 33337-66

ACC NR: AT6013392

Fig. 1. Apparatus. 1 - sample; 2 - motor
3 - electromagnetic sensor; 4 - amplifier
5 - power amplifier; 6 - oscillograph; 7 - oscilloscope



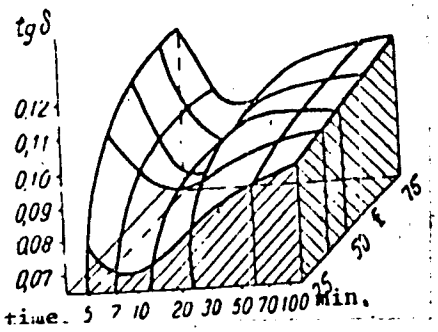


Fig. 2. tg δ dependence upon frequency and vulcanization time

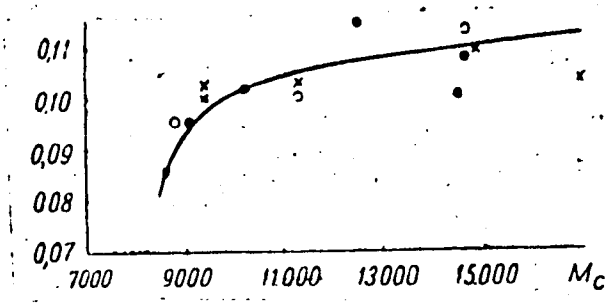


Fig. 3. Relation between tg δ and average molecular weight of a rubber molecular cell.

Orig. art. has 9 figures.

SUB CODE: 11/ SUBM DATE: 20Mar62/ ORIG REF: 007/ OTH REF: 001

Card 2/2 UCR

KUSTOVA, D.

3

Some transformations of abietic acid. V. N. Belov and D. Kustova. *Zhur. Obshchei Khim.* 24, 1087-94(1954).—[illegible]ating abietic acid with H_2O under pressure to 230-50° [illegible]e 12-13% *abietene*, $b_{4.5}$ 167-70°, n_D^{20} 1.5285, d_{20} [illegible]605. Decarboxylation of the acid Na salt of abietic [illegible]d in the presence of alkali also occurs at this temp. and [illegible]es 40% abietene. This treated with *N*-bromosuccini[illegible]de in CCl_4 yields a bromide which is unstable above 0° so [illegible]t the reaction at 20° yields an oil composed, after distn. [illegible]n NaOH, of *dehydroabietene*, b_{3-4} 118-20°, n_D^{20} [illegible]330, d_{20} 0.9670 (cf. Brossi, *et al.*, *C.A.* 45, 1077a). Hy[illegible]ogenation of rosin over Ni gave 31.1% *tetrahydroabietic* [illegible]id, m. 165-8°, b_{3-4} 192-205° (crude); *Ag salt*, m. [illegible]5-8°. The acid treated with $SOCl_2$ gave 97% *acyl* [illegible]oride, $C_{20}H_{33}OCl$, m. 69-9.5°, which yielded 92% *amide*, [illegible] 182-3° (from EtOH). This treated with KOBr-KOH [illegible]65-70° gave 81.[illegible]% [illegible] *isocyanate*, $b_{[illegible]}$ [illegible]9-202°, m. 59-61°, which, refluxed with HCl 15 min., [illegible]elded 84.6% [illegible]-*HCl*, m. 152-[illegible]°; [illegible]*rate* of the amine [illegible] Heating the HCl salt [illegible]th aq. $NaNO_2$ [illegible] *[illegible]hydroabietene*, $C_{19}H_{3[illegible]}$, [illegible] 178-9°, n_D^{20} 1.[illegible] which has a double bond [illegible] either the 1,2 [illegible] Hydrogenation in [illegible]OH over Pt gave [illegible], $C_{19}H_{[illegible]}$, [illegible] 178-82°, n_D^{20} 1.[illegible] Thus the HNO_2 rea[illegible]tion failed to isomerize the cyclic [illegible]. G. M. K.

GAGARINSKIY, Yu.V.; RUCHKIN, Ye.D.; LUK'YANOVA, L.A.; KUSTOVA, G.N.; BATSANOV, S.S.

Crystal chemical study of thorium tetrafluoride hydrates. Izv. SO AN SSSR no.11 Ser.khim.nauk no.3:8-16 '63. (MIRA 17:3)

L 42884-66 EWT(m)/EWP(1)/EWP(t)/ETI LJP(c) JD/AW/JG/RM
ACC NR: AP6020386 (A) SOURCE CODE: UR/0192/66/007/001/0122/0123

60
B

AUTHOR: Batsanov, S. S.; Kustova, G. N.

ORG: Institute of Inorganic Chemistry, SO AN SSSR, Novosibirsk (Institut neorganicheskoy khimii SO AN SSSR)

TITLE: Optical properties of rare earth oxides. Part 4: Polythermal study of neodymium acetate and hydroxide

SOURCE: Zhurnal strukturnoy khimii, v. 7, no. 1, 1966, 122-123

TOPIC TAGS: neodymium compound, IR spectrum, thermal decomposition

ABSTRACT: The formation of neodymium oxide from the acetate and hydroxide was studied by means of IR spectra. Neodymium acetate $Nd(CH_3CO_2)_3 \cdot 6H_2O$ was heated to 100, 200..., 1200°, each time to a constant weight, and its spectra were recorded. An appreciable decomposition begins at 330°, and an absorption band due to the Nd-O bond appears in the absorption spectrum at 400 cm^{-1}. The band has two humps, i. e., is characteristic of the C form of Nd_2O_3. The acetate ions are completely decomposed at 600°. The C→A transition occurs at 700°. The intensity of the 400 cm^{-1} band increases with heating and holding of the samples at 700, 800, and 900° as the content of Nd_2O_3 increases. Heating at 1000 and 1100° does not change this intensity, but after prolonged holding at 1200°, the intensity drops sharply. A similar result was obtained in a spectroscopic study of the thermal decomposition of neodymium hydroxide. At 900°, the C form

Card 1/2 UDC: 541.65

L 42554-66

ACC NR: AP6020386 O

of Nd_2C_3 changed into the A form. Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 20Feb65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

ACCESSION NR: AP4012438 S/0078/64/009/002/0330/0334

AUTHORS: Batsanova, L. R.; Kustova, G. N.

TITLE: Oxyfluoride of rare earth elements

SOURCE: Zhurnal neorg. khim., v. 9, no. 2, 1964, 330-334

TOPIC TAGS: lanthanum oxyfluoride, praseodymium oxyfluoride, neodymium oxyfluoride, samarium oxyfluoride, gadolinium oxyfluoride, dysprosium oxyfluoride, yttrium oxyfluoride, lanthanum fluoride hydrolysis, density, refractive index, x ray data, IR spectrum

ABSTRACT: The oxyfluorides of La, Pr, Nd, Sm, Gs, Dy, and Y were prepared by two methods: (1) reacting equimolar amounts of the Ln_2O_3 and LnF_3 at 1000-1100°: $La_2O_3 + LaF_3 \rightarrow 3LaOF$; (2) partial hydrolysis of the LnF_3 at 800-900°: $LaF_3 + H_2O \rightarrow LaOH + 2HF$. Densities and refractive indices were determined; x-ray data was obtained. IR spectra of the rare earth oxyfluorides show strong absorption in the 400-550 cm^{-1} region. Orig. art. has: 3 Figures and 3 Tables.

Card 1/2

ACCESSION NR: AP4012438

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR (Institute of inorganic chemistry, Siberian Branch AN SSSR)

SUBMITTED: 25Jan63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: CH NR REF SOV: 003 OTHER: 008

Card 2/2

L 35285-65 EWG(j)/EWT(m)/EPF(c)/EWR/EWP(t)/EWP(b) Pr-4/Ps-4
IJP(c) JD/JG
ACCESSION NR: AP5007755 S/0192/65/006/001/0058/0065

AUTHOR: Batsanov, S. S.; Kuntova, G. N.; Ruchkin, Ye. D.; Grigor'yeva, V. S.

TITLE: Optical properties of rare earth metal oxides. 2. A polythermic study of neodymium oxide

SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 1, 1965, 58-65

TOPIC TAGS: rare earth oxide, oxide optical property, neodymium oxide, polymorphic transformation, neodymium nitrate, neodymium oxalate, neodymium sulfate, neodymium coordination number, neodymium oxide structure

ABSTRACT: The authors report the results of X-ray, refractometric and spectroscopic studies of Nd_2O_3 obtained by roasting neodymium nitrate, oxalate and sulfate at 600-1300C in air. The nitrate proved least and the sulfate most resistant to heat. It was shown that a sufficiently pure oxide is only obtained at 1100C. Upon dissociation of the Nd sulfate, the oxysulfate was obtained ($Nd_2O_2SO_4$) between 800 and 1000C. This was also studied. Polymorphic C→A transformation was detected for the oxalate at 700-800C, for the nitrate at 800-900C. No such transformation was seen for the sulfate where the A-form

Card 1/3

L 36985-65
ACCESSION NR: AP5007755 0

appeared at 1100C. Under the experimental conditions, no B-form was detected. Refractometric studies showed irregular changes in density with increasing temperature; however, a decrease in density was noted for all specimens at 1200C. The maximal density between 1000 and 1100C may be related to the existence of the B-modification. The structures of the A and C form were shown to differ by the coordination numbers of the metal atom, 7 for A and 6 for C-Nd_2O_3. In spectroscopic determinations on the nitrate, the Nd-O band started at 400, corresponding to the formation of the oxynitrate, and persisted to 900C. Similar results were obtained for the oxalate. For the sulfate, the Nd-O bond appeared only around 900C, together with that of SO_4^{2-} corresponding to the existence of the oxysulfate rather than a mixture of the sulfate and oxide. The oxysulfate disappeared completely at 1100C. The 2 maxima obtained for the Nd-O bond in the sulfate suggest that isolation of SO_3 at this temperature might also yield the C-form for the sulfate. In the process of thermal dissociation of the salts, the absorption intensity ν(Nd-O) was observed to increase at the beginning, due to increase in Nd_2O_3 concentration in the specimen, and then drop due to a decrease in the number of defects in the structure. Orig. art. has: 3 figures and 5 tables.

Card 2/3

L 36935-65
ACCESSION NR: AP5007755

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR, Novosibirsk (Institute of Inorganic Chemistry, SO AN SSSR)

SUBMITTED: 03Jan64 ENCL: 00 SUB CODE: IC, OP

NO REF SOV: 005 OTHER: 008

Card 3/3

KOD[illegible], I.M., prof.; KUSTOVA, I.I.

Use floodland soils intensively. Zemledelie 27 no.9:54-55 S '65.
(MIRA 18:10)

1. Gor'kovskiy sel'skokhozyaystvennyy institut.

BOUCHALOVA, M., mudr.; SRACKOVA, D , mudr.; KUSTOVA, L.; GERYLOVOVA, A., prom. mat.

Contribution to the study of the state of health in children. II. The state of health in children according to medical examinations. Cesk. zdrav. 10 no.7/8:392-398 '62.

1. Ustav zdravotnictvi lekarske fakulty University J.E.Purkyne v Brne II. detska klinika lekarske fakulty University J.E.Purkyne v Brne.
(CHILD WELFARE)

KOBLOV, A.; KUROV, L.

Poultry - Feeding and Feeding Stuffs

Getting cockerels ready for fattening.
Mias. ind., 23, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

CZECHOSLOVAKIA

HRUBAN, A.; POLIHRANSKY, K.; KUSTOVA, L.

1. X-ray and Nuclear Medicine Section (Katedra radiologie a nukl. lekarstvi), LF UJEP, Brno; 2. First Pediatric Clinic (I. detska klinika), LF UJEP, Brno; 3. Second Pediatric Clinic (II. detska klinika), LF UJEP, Brno

Brno, Vnitrni lekarstvi, No 5, May 1966, pages 481-485

"Diagnosis of Vesico-Ureteric reflux by means of isotope renography."

SHCHERNIKOV, S., doktor veterinarnykh nauk; PETROVSKAYA, Ye., kandidat veterinarnykh nauk; KUSTOVA, L., kandidat tekhnicheskikh nauk; KRASNITSKAYA, K.

Methods for determining the freshness of poultry meat and fat. Mias. ind. SSSR 26 no.5:51-53 '55. (MLRA 9:2)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepromyshlennosti. (Poultry) (Oils and fats, Edible)

STROGANOV, P., elektromonter; KUSTOVA, L.; D'YACHKOV, N., slesar'

Congress will be held soon. Izobr.i rats. no.5 (201):19 '63.
(MIRA 16:7)
1. Moskovskiy zavod "Serp i molot" (for Stroganov). 2. Zavod "Krasnyy Proletariy" (for D'yachkov).
(Technological innovations)

KUSTOVA, L. (g. Vladimir)

I simply like it. Izobr. i rats. no.4:5 '63. (MIRA 16:7)

(Vladimir—Acetic anhydride)

SHIKHOBALOVA, N. P., KUSTOVA, L. I., KOSILOV, A. M.

Worms, Intestinal and Parasitic

Effect of ascarids on vitamin A content in chick liver. Trudy Gel'm. lab. no. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1953, Uncl.

KUZNETSOV, I.A.; KUSTOVA, L.V.; GORSHKOV, V.I.; PANCHENKOV, G.M.

Equilibrium of cation exchange of alkali metals on cation exchange resins KU-1 and KU-2. Vest.Mosk.un.Ser.2:Khim. 18 no.2:10-13 Mr-Ap '63. (MIRA 16:5)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.
(Alkali metals) (Ion exchange resins)
(Chromatographic analysis)

GORSHKOV, V.I.; KUZNETSOV, I.A.; PANCHENKOV, G.M.; KUSTOVA, L.V.

Continuous countercurrent ion exchange method for separation of lithium and sodium. Zhur. neorg. khim. 8 no.12:2790-2794 D '63. (MIRA 17:9)

Feasibility of countercurrent ion exchange separation of rubidium and cesium. Ibid.:2795-2799 (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra fizicheskoy khimii.

TSERKOVITSKAYA, I.A.; KUSTOVA, N.A.

Amperometric determination of V^{4+} and V^{5+} when they are present simultaneously. Vest. LGU 15 no.16:148 '60. (MIRA 13:8)
(Vanadium--Analysis)

TSERKOVNITSKAYA, I.A.; PRUDNIKOV, Ye.D.; KUSTOVA, N.A.

Effect of organic complexing agents on the oxidation-reduction potential of the V^{4+}/V^{3+} system. Vest.LGU 16 no.10:133-138 '61. (MIRA 14:5)

(Vanadium compounds) (Oxidation-reduction reaction) (Complex ions)

[illegible], ...

Kustova, G.D.--"Synthetic Investigations in the [illegible]eldOf Abietic Acid."
Sand Chem Sci, All-Union Sc' Res Inst of Synthetic And Natural Essential Oils, Moscow, 1953. (ZHURNAL OBSHCHEY KHIMII, no 1, Jan 54)

Source: SUM 168, 22 July 1954

KUSTOVA, S.D.; BELOV, V.N.

Preparation of methyl ether of tetrahydroabietic acid and tetrahydroabietyl alcohol. Trudy VNIISNDV no.2:58-60 '54.
(MLRA 10:7)

(Methyl ether) (Phenatrenecarboxylic acid) (Abietyl alcohol)

KUSTOVA, S.D.

USSR/Chemistry

Card 1/1

Authors : Belov, V. N., and Kustova, S. D.

Title : Study of certain abietic acid conversions

Periodical : Zhur. Ob. Khim., 24, Ed. 6, 1087 - 1094, June 1954

Abstract : Heating of abietic acid with water under pressure at a temperature of 230 - 250°, yields 12 - 13% abietene. Decarboxylization of the acid sodium salt of abietic acid, in the presence of alkali, takes place at the same temperature, with a result of a 40% yield of abietene. The bromide forming during the reaction of abietene with N-bromosuccinimide is unstable at an above zero temperature. Complete dehydrogenation of the abeitene is the result of such reaction. The derivation of tetrahydroabietene, as result of reaction between hydrochloride of tetrahydroabietylamine and nitrous acid, indicates that no cycle isomerization occurs during the substitution of the amino group by the hydroxyl. Eleven references.

Instituiton : All-Union Scientific-Research Institute of Synthetic and Natural Perfumes

Submitted : December 21, 1953

Kasatkin, S.D.

Distr: 4E4j/4E2d

New synthesis of isoprene. V. N. Ipatov, N. A. Dasy, S. D. Kasatkin, K. V. Lenib, S. S. Poddubnaya, N. I. Shuykina, and A. N. Shumovskii. Zhur. Obshchei Khim. 27, 1357-64 (1957).—Treatment of (CMe:CH)$_2$ with dry HCl with ice cooling gave 80% isomeric chloroallylmethylbutenes, b$_{30}$ 35–60°. This material (220 g.) and 144 g. isoprene in 585 g. CH_2Cl_2 treated at 15° with 30 ml. 1.6 $SnCl_4$ in CH_2Cl_2, and, after 20 min., with 200 ml. sat. aq. NaCl, yielded 15.8% *methylgeranyl chloride*, b$_4$ 76–8°, n^{25}D 1.4818, d$_{20}$ 0.9303. This (50 g.) and 16.3 g. dry pyridine in 5 hrs. at 65–8° gave 71% *quaternary salt*, which (30.7 g.), kept 3 hrs. at room temp. with 20.7 g. *p*-$MeC_6H_4NO_2$, 370 ml. EtOH, and 9.5 ml. 4 *N* NaOH, dild. with 750 ml. H_2O, kept 20 hrs. with ice cooling, extd. with C_6H_6, and the nitrone decompd. with 2 *N* HCl gave 20.6% crude *methylgeranyl*, which after steam distn. had n^{25}D 1.4915, d$_{20}$ 0.9141. Alternatively 50 g. urotropine in 200 g. $MeCH_2$ treated of part of the solvent by distn. to 110°, heated on a steam bath 3 hrs., with 58 g. isoprene chloride, and repeatedly treated with urotropine gave an aq. soln. of the Sommelet complex, which, treated with 100 g. formalin, satd. with NaCl, and steam-distd. yielded 10 g. methylcitral, b$_3$ 93–5°, n^{25}D 1.4910. The *semicarbazone* (7.5 g.), 12 g. Me_2CO, and 14.5 g. 11% NaC_2O_4 soln. stirred 72 hrs. at 18–25° and extd. with Et_2O gave 4.2 g. crude *pseudoionone*, b$_4$ 124–6°, n^{25}D 1.5348, d$_{20}$ 0.9045. This (3.9 g.) in 70 ml. CH_2Cl_2 treated at 0° with BF_3 until satd., the product cooled to 0°, treated with 95 ml. 8% NaOH, and extd. with C_6H_6, then repeatedly with NaOH, yielded a range of fractions, b$_4$ 94–7°, with n^{25}D 1.5030–1.5062, and d$_{20}$ 0.8243, values agreeing with those of *ionone* prepd. by cyclization with BF_3. The pseudoionone prepd. above contains about 67% *trans* isomer, as shown by its H_2O_2 consts.

G. M. Kosolapoff

KOFE, S.A.; KUSTOVA, S.D.; BELOV, V.N.

Intermediate products of the synthesis of odorous substances. Report No.9: Converting primary chlorides to corresponding aldehydes by the Krönke method. Trudy VNIISNDV no.4:39-41 '58. (MIRA 12:5)

(Aldehydes) (Perfumes, Synthetic)

NOVOTEL'NOVA, N.F.; KUSTOVA, S.D., kand.khim.nauk

Composition of the residual part of Chinese citronella oil after the extraction of geraniol, citronellol, and citronellal. Masl.-zhir.prom. 25 no.10:28-29 '59.
(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Citronella oil)

SIBIRTSEVA, V.Ye.; VIREZUB, S.I.; KUSTOVA, S.D.

Odorous substances from sclareol. Report No.1: Ambrial and ambroxide. Trudy VNIISNDV no.5:9-14 '61. (MIRA 14:10)
(Odorous substances) (Sclareol)

BAG, A.A.; BLIZNYAK, N.V.; BULANOVA, A.V.; KUSTOVA, S.D.; CHERKAYEV, V.G.

Odorous substances from sclareol. Report No.2: Possibility for converting the lactone 1,1, 6, 10-tetramethyl-6-oxy-5-methylene-carboxydecalin into 1, 1, 6, 10-tetramethyl-6-oxy-5 (β-oxy)-ethyldecalin by catalytic hydrogenation. Trudy VNIISNDV no.5: 14-16 '61. (MIRA 14:10)

(Odorous substances) (Naphthalene)

SIBIRTSEVA, V.Ye., inzh.; KUSTOVA, S.D., kand.khimicheskikh nauk; KOGENMAN, G.M., inzh.; MAKAROVITSKAYA, I.S., inzh.

Industrial method of preparing ambrial (bicyclohomofarnesal). Masl.-zhir. prom. 27 no.12:31-32 D '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Sibirtseva, Kustova). 2. Moskovskaya kosmeticheskaya fabrika (for Kogenman, Makarovitskaya).
(Farnesal)

DOTSENKO, P.Ya.; TISHKOVA, V.S.; RYZHKOVA, Ye.A.; SIBIRTSEVA, V.Ye.; LESHCHINER, A.S.; KUSTOVA, S.D.

Improved method for obtaining rose and azalea absolute. Masl.-zhir. prom. 29 no.5:43-44 My '63. (MIRA 16:7)

1. Sovkhoz-zavod "Elit" (for Dotsenko, Tishkova, Ryzhkova).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Sibirtseva, Leshchiner, Kustova).
(Essences and essential oils)

AVAKOVA, I.S.; KUSTOVA, S.D.; TITOVA, N.B.

Composition of the hydrogen-containing fraction of low menthol peppermint oil. Trudy VNIISNDV no.6:125-127 '63. (MIRA 17:4)

AVAKOVA, L.S.; KUSTOVA, S.D.; RUDOL'FI, T.A.; SEVERTSEV, V.A.; TITOVA, N.B.; CHERKAYEV, V.G.; SHCHEDRINA, M.M.

Increasing the menthol content of low menthol peppermint oil. Trudy VNIISNDV no.6:164-166 '63. (MIRA 17:4)

KUSTOVA, T.I.

Volumetric study of landslides in a region of the Odessa coast.
Geol. zhur. 23 no.5:72-77 '63. (MIRA 16:12)

1. Luganskiy gornometallurgicheskiy institut.

KUSTOVA, V.

To all parts of the world. Vnesh. torg. 41 no.9:18 '61.
(MIRA 14:8)

(Moscow--Textile industry)
(Russia--Commerce)

VOSTRIKOVA, A.M.; SAKHAROVA, V.V., Prinimali uchastiye: FISHKO, F.Ye.; YEFIMOVA, N.M.; BABURSKAYA, Z.T.; POZDNYAKOVA, K.I.; SHCHEGLOVA, K.D.; KUSTOVA, V.T.; POD"YACHIKH, P.G., red.; STRONGIN, V.L., red.; PYATAKOVA, N.D., tekhn.red.

[Public health in the U.S.S.R.; compendium of statistics] Zdravookhraneniye v SSSR; statisticheskii sbornik. Moskva, Gosstatizdat TsSU SSSR, 1960. 271 p. (MIRA 13:8)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye.2. Otdel statistiki naseleniya i zdravookhraneniya TSentral'nogo statisticheskogo upravleniya SSSR (for all except Strongin, Pyatakova). 3. Chlen Kollegii TSentral'nogo statisticheskogo upravleniya SSSR (for Pod"yachikh).

(PUBLIC HEALTH--STATISTICS)

TSYBUL'SKIY, Vladimir Vasil'yevich; KUSTOVA, Ye., red.; RUDINA, G., tekhn.red.

[P.A.Chikhachev, an outstanding explorer of the Altai] P.A.Chikhachev - vydaiushchiisia issledovatel' Altaia. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1959. 133 p. (MIRA 13:2)

(Chikhachev, Petr Aleksandrovich, 1808-1890)

KUSTOVA, Ye.A.

Rise of the Soviet public health organization and the role of A.N. Sysin. Zdravookhranenie 2 no.6:9-13 N-D '59. (MIRA 13:6)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny im. N.A. Semashko (direktor - dotsent Ye.D. Ashurkov).
(PUBLIC HEALTH) (SYSIN, ALEKSEI NIKOLAEVICH, 1879-)

KUSTOVA, Ye.A. (Moskva)

Problems of prophylaxis at the Seventh All-Russian Congress of Health Departments. Sov.zdrav. 19 no.5:9-13 '60. (MIRA 13:9)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A. Semashko (dir. Ye.D. Ashurkov).
(MEDICINE, PREVENTIVE)

KUSTOVA, Ye.A.

A.N. Sysin. Gig.i san. 25 no.1:53-56 Ja '60. (MIRA 13:5)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A. Semashko.
(BIOGRAPHIES)
(SANITATION)

KUSTOVA, Ye.A.

Fourth All-Russian Congress of Bacteriologists and Epidemiologists.
Zdrav. Bel. 7 no. 2:60-61 F '61. (MIRA 14:2)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
im. N.A. Semashko (direktor Ye.D. Ashurkov).
(BACTERIOLOGY—CONGRESSES) (EPIDEMIOLOGY—CONGRESSES)

KUSTOVA, Ye.A.

Role of the White Russian Sanitary Organization in building up sanitation in our country. Zdrav. Bel. 7 no.10:76-78 O '61.
(MIRA 14:11)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Semashko (ispolnyayushchiy obyazannosti direktora instituta A.B.Shevelev).
(SANITATION)

KUSTOVA, Ye.A.

Problem of training and postgraduate education of sanitary personnel and activities of the Scientific Medical Council of the People's Commissariat of Public Health of the R.S.F.S.R. (1918-1932). Gig.i san. 26 no.3:50-54 Mr '61. (MIRA 14:7)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Semashko.

(MEDICINE)

VISHNEVSKAYA, Iraida Ivanovna; SOKOLOV, Aleksandr Aleksandrovich; KUSTOVA, Ye.A., red.; PRONINA, N.D., tekhn. red.

[Medical care for the rural population at the Kalinin Province Hospital] Meditsinskoe obsluzhivanie sel'skogo naseleniia Kalininskoi oblastnoi bol'nitsy. Moskva, Medgiz, 196?. 106 p. (MIRA 16:10)
(KALININ PROVINCE--HOSPITAL CARE)
(KALININ PROVINCE--MEDICINE, RURAL)

ZYKOV, Il'ya Vasil'yevich; KUSTOVA, Ye.G., red.; RUDINA, G.V., tekhn. red.

[Nature calendar of Kemerovo Province]Kalendar' prirody Kemerovskoi oblasti. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1960. 126 p. (MIRA 15:11)
(Kemerovo Province--Nature study)

L 07701-67 EWT(m)/EWP(t)/ETI IJP(c) JD/HW/WB

ACC NR: AP6034190 SOURCE CODE: UR/0369/66/002/005/0515/0517

AUTHOR: Novokreshchenov, P. D.; Kustova, Yu. Ye.

ORG: Pedagogical Institute, Voronezh (Pedagogicheskiy institut)

TITLE: Investigation of the effect of low-melting metal coatings on nickel recrystallized at various temperatures

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 5, 1966, 515-517

TOPIC TAGS: nickel, bismuth, ~~cobalt-nickel~~, cadmium, ~~cadmium-nickel~~, zinc, ~~cobalt-nickel, coated nickel specimen, coated nickel~~ internal friction, metal coating

ABSTRACT: The effect of low-melting metal coatings on the structure and internal friction of nickel has been investigated. NP-2 nickel specimens 1 mm in diameter annealed at 650, 750 or 850C to obtain a respective grain size of 0.03, 0.20 and 0.30 mm were coated with bismuth, cadmium or zinc by dipping. The thickness of the coating did not exceed 30—35 μ. The tensile strength of specimens annealed at 650, 750 and 850C was 42.2, 37.1, and 39.2 kg/mm^2, respectively, and the elongation was 26.6, 20.4, and 20.7%. All three metals were found to have a significant effect on the internal friction of nickel (see Fig. 1).

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ACC NR: AP6034190

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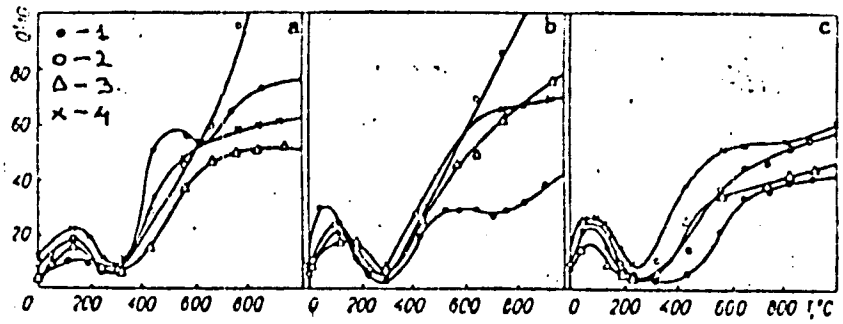


Fig. 1. Internal friction of nickel annealed at 650 (a), 750 (b), and 850C (c) and uncoated (1) or coated with bismuth (2), cadmium (3), or zinc (4).

The effect was especially pronounced in nickel annealed at 750C, in which the grain size amounts to 20% of the specimen diameter. The penetration of surface-active metals into nickel proceeds primarily along grain boundaries and structure defects. Annealing at 850C forms a structure with a small number of grain-boundary defects and dislocations. As a result, the increase of internal friction is insignificant. Orig. art. has: 2 figures.

SUB CODE: 11, 14/ SUBM DATE: 15Mar66/ ORIG REF: 012/ OTH REF: 001
ATD PRESS: 5101

Card 2/2

MATVEYEVA, N.N.; SMIRNOVA, Z.M.; KUSTOVA, Z.M.; VASIL'YEVA, M.V.; GEL'CHINSKIY, B.Ya.; OZEROV, D.K.; MAMUKHOV, A.V.; GOL'TSMAN, F.M.; PETRASHEN', G.I., red.; VOLKHOVER, R.B., tekhn. red.

[Papers on the quantitative study of seismic wave dynamic] Materialy kolichestvennogo izucheniia dinamiki seismicheskikh voln. Pod. rukovodstvom i red. G.I.Petrashen'. [Leningrad] Izd-vo Leningr. univ. Vol. 1. 1957. 420 p. Vo.2. 1957. 152 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Matematicheskiy institut, Leningradskoye otdeleniye.
(Seismometry)

CHEREPENIN, L.A., inzhener; KUSTOVSKIY, B.B., inzhener.

Quality of coke. Lit. proizv. no.2:29 F '57. (MLRA 10:4)
(Coke)

KOLODTSEV, Kh.I., kand.fiz.-matem.nauk; BABIY, V.I., kand.tekhn.nauk
KUSTOVSKIY, S.P., inzh.

VTI gas generator for gas-turbine systems. Teploenergetika 8 no.4:44-48 Ap '61. (MIRA 14:8)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Gas turbines)

KUSTRA, T.; MISIK, A.; SZABO, L.

Experiences with trypsin therapy of chronic maxillary sinusitis. Cesk. otolar. 7 no.5:279-283 Oct 58.

1. Otolaryng. odd. OUNZ Martin, prednosta MUDr. Teodor Kustra.
(SINUSITIS, ther.
trypsin (Cz))
(TRYPSIN, ther. use,
sinusitis (Cz))

KUSTRA, Teodor; MISIK, Adam

Preliminary reports on the surgical treatment of the antro-alveolar fistulas using Kustra's method. Otolaryng. Pol. 19 no.3:345-351 '65.

1. Z Oddzialu Otolaryngologicznego OUNZ w Martinie (Kierownik: dr. med. T. Kustra).

KUSTRA, T.

Some anatomical data on the maxillary sinus obtained with the use of craniometry and their value in surgery. Bratisl. lek. listy 45 no.5:274-281 15 S '65.

1. Otolaryngologicke oddelenl Obvodniho ustavu narodniho zdravi v Martine (veduci primar MUDr. T. Kustra).

AKACIC, B.; KUSTRAK, D.; POJE, B.

Separation of furocumarine derivatives in Ammi maius L.
Bul sc Youg 7 no.1/2:56 F-Ap '62.

1. Zavod za farmakognoziju Farmaceutskog fakulteta, Zagreb.

*

AKACIC, Branko, prof. dr (Zagreb); [illegible], [illegible]

Influence of the development stage of [illegible] flower heads on the content of their essential oil. [illegible] Zagreb Supplement [illegible] no.5:14-1[illegible]

1. Institute of Pharmacognosy of the Pharmaceutical Faculty, University of Zagreb, Zagreb.

KOSSOWSKI, Stanislaw; DUBLAKOWA, Irena; [illegible] MAREK-BABCZYSZYN, Jadwiga; KUSTRZYCKA, Helena; PRZ[illegible]-[illegible]SSEK, Anna; CYMULEWSKA, Jadwiga; LUSAR, Zofia

Clinical, bacteriological and serological studies on chronic atrophic fetid nasopharyngitis. Arch. Immun. ther. exp. 12 no.4:483-490 '64

Clinical, bacteriological and serological studies on chronic atrophic nonfetid nasopharyngitis and laryngitis. Ibid.: 491-496

1. Department of Bacteriology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw; The Laryngological Clinic, School of Medicine, Wroclaw, and Department of Microbiology, School of Medicine, Wroclaw.

KOSSOWSKI, Stanislaw; RECZEK, Halina; KUSTRZYCKA, Helena

Stewart's tumors in the oral cavity. Otolar polska 15 no.3:327-331 '61.

1. Z Kliniki Laryngologicznej AM we Wroclawiu Kierownik: prof. dr W. Jankowski.

(MOUTH neoplasms)

IWANKIEWICZ, Stanislaw; KAWECKI, Karol; KUSTRZYCKA, Helena

Pseudotuberculomas of the larynx and trachea. Otolaryng. pol. 17 no.1:45-53 '63.

1. Z Kliniki Otolaryngologicznej AM we Wroclawiu Kierownik: prof. dr W. Jankowski i z Zakladu Anatomii Patologicznej AM we Wroclawiu Kierownik: prof. dr Z. Albert.
(TUBERCULOSIS, LARYNGEAL) (TUBERCULOMA)
(TRACHEA) (DIAGNOSIS, DIFFERENTIAL)

BROSS, Wiktor; KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; KUSTRZYCKI, Anatol

Instructive vectocardiograms in 2 patients after commissurotomy. Polski tygod. lek. 12 no.51:1964-1967 23 Dec 57.

1. (Z II Kliniki Chirurgicznej i Osrodka Kardiologicznego Wroclawskiej Akademii Medycznej). Wroclaw, ul. Marcinkowskiego 1, Zakl. Patol. Og. i Dosw. A.M.

(COMMISSUROTOMY
postop. vectorcardiograms (Pol))
(VECTORCARDIOGRAPHY
after commissurotomy (Pol))

KUSTRZYCKI, Anatol; KASPRZAKOWA, Janina; RZUCIDLO, Zbigniew

Persistent common atrioventricular canal in a 21 year-old woman. Polski tygod. lek. 13 no.9:311-314 3 Mar 58.

1. (Z II Kliniki Chirurgicznej A.M. we Wroclawiu, kier. prof. dr med. W. Bross, z Zakladu Interny I.D. i S.K.L. Oddziai we Wroclawiu na bazie Szpitala Wojewodzkiego; kier doc. dr med. J. Kaniak i Zakladu Anatomii Patologicznej A.M. we Wroclawiu; kier. prof. dr med. Z. Albert) Wroclaw 12, ul. Olszewskiego 94/6.
(CARDIAC SEPTUM, abnorm.
persistent common atrioventricular canal in woman (Pol))

BROSS,Wiktor; KOCZOROWSKI,Stefan; ARONSKI,Antoni; KUSTRZYCKI,Anatol

Open-heart surgery of Fallot's tetralogy in hypothermia.
Polski tygod lek 15 no.11:381-388 14 Mr '60.

1. Z II Kliniki Chirurgicznej A.M. we Wroclawiu; kierownik: prof. dr Wiktor Bross.
(TETRALOGY OF FALLOT surg.)
(HYPOTHERMIA INDUCED)

BROSS, Wiktor; KOCZCROWSKI, Stefan; KUSTRZYCKI, Anatol; ARCNSKI, Antoni

Open heart valvulotomy in isolated stenosis of the pulmonary artery.
Polski przegl.chir. 32 no.8/9:863-869 '60.

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu
Dyrektor: prof. dr W.Bross.
(PULMONARY STENOSIS surg)

BROSS, Wiktor; KOWARZYK, Hugon; KOWARZYKOWA, Zofia; KUSTRZYCKI, Anatol; HOMIK, J.

Typical QRS vectorcardiograms during cardiac load in interauricular septal defects. Pol. tyg. lek. 16 no.51:1963-1966 18 D '61.

1. Z II Kliniki Chirurgicznej, Katedry Patologii Ogolnej i Doswiadczalnej, Osrodka Kardiologicznego przy PSK 1 A. M. we Wroclawiu)

(VECTORCARDIOGRAPHY) (HEART SEPTUM abnorm)

KUSTRZYCKI, A.

Cardiac catheterization in the diagnosis of defects in the interauricular septum. Kardiol. Pol. 5 no.1:5-12 '62.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu Kierownik: prof. dr W.Bross.

(HEART SEPTUM diag) (HEART CATHETERIZATION)

BROSS, W.; KOSTRZYCKI, A.; DEC, L.; KOLTOWSKI, R.; BROSS, T.

Electrocardiographic studies in cases of defects in the inteauricular septum. Kardiol. Pol. 5 no.1:13-18 '62.

1. Z II Kliniki Chirurgicznej Kierownik: prof. dr W. Bross i z Kliniki Nefrologicznej AM we Wroclawiu Kierownik: prof. dr. Z.Wiktor.
(HEART SEPTUM abnorm) (ELECTROCARDIOGRAPHY)

ALBERT, Zgymunt; KUSTRZYCKI, Anatol; RZUCIDLO, Zbigniew

Angiography of afferent and efferent blood vessels in transplantable chrysoidin hepatoma in mice. Actamed. pol. 4 no.1:21-31 '63.

1. Institute of Immunology and Experimental Therapy Polish Academy of Sciences, Wroclaw, Director: Prof. Dr. S. Slopek Department of Experimental Oncology, Wroclaw, Director: Prof. Dr. Z. Albert II Surgical Clinic, Medical Academy, Wroclaw, Director: Prof. Dr. W. Bross Department of Pathological Anatomy, Medical Academy, Wroclaw, Director: Prof. Dr. Z. Albert.
(HEPATOMA) (ANGIOGRAPHY)

BROSS, W.; KOCZOROWSKI, S.; WREZLEWICZ, W.; KANIOWSKI, T.; ROGALSKI, E.; KUSTRZYCKI, A.; MASLANKA, P.

Apropos of the treatment and diagnosis of bronchial adenoma. Pol. przegl. radiol 27 no.5:381-395 S-O '63.

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu (Kierownik: prof. dr med. W. Bross); Z Kliniki Radiologicznej Akademii Medycznej we Wroclawiu (Kierownik: doc. dr med. Z. Kubrakiewicz).

BROSS, Wiktor; WREZLEWICZ, Wladyslaw; CISEK, Tomasz; KANIOWSKI, Tadeusz; KUSTRZYCKI, Anatol

Pulmonary hypoplasia in a 12-year-old child. Gruzlica 31 no.7: 817-822 '63.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu.
(LUNG DISEASES) (ABNORMALITIES)

BROSS, Wiktor; KOCZOROWSKI, Stefan; ROGALSKI, Eugeniusz; KUSTRZYCKI, Anatol; WRZELEWICZ, Wladyslaw

Results of the surgical treatment of bronchial adenoma. Pol. przegl. chir. 35 no.10/11:1125-1127 '63.

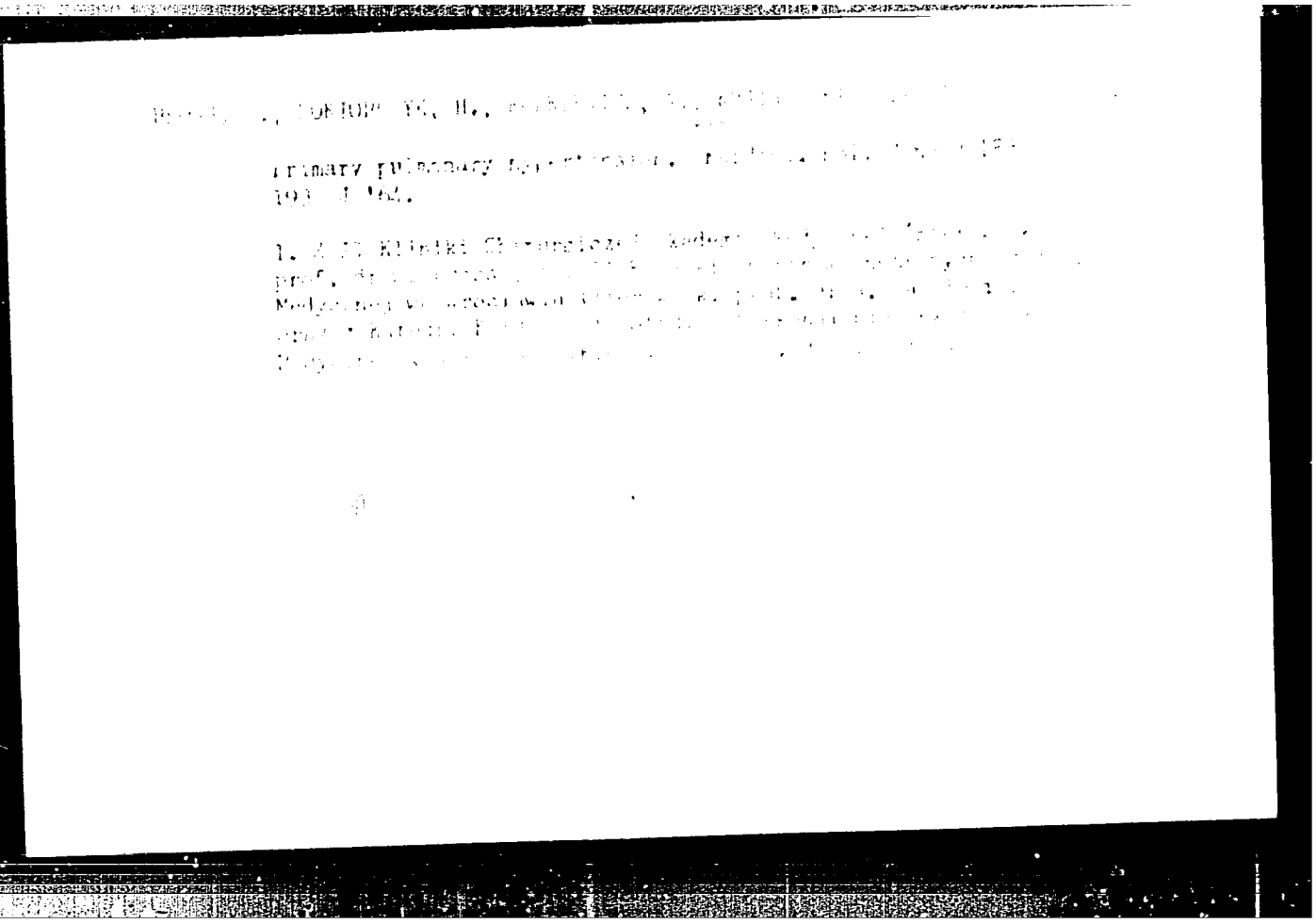
1. Z II Kliniki Chirurgicznej AM we Wroclawiu Kierownik: prof. dr W. Bross.

(BRONCHIAL NEOPLASMS) (ADENOMA)
(SURGERY, OPERATIVE)

KUSTRZYCKI, Anatol; MARCINIAK, Roman

A case of complete transposition of the pulmonary vein and persisten' upper portal vein. Five-year follow-up. Pol. tyg. lek. 19 no.40 1536-1538 5 [illegible] '64

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu (Kierownik: prof. dr. med. Wiktor Brosa) i z Kliniki Radiologicznej Akademii Medycznej we Wroclawiu (Kierownik: doc. dr. med. Zbigniew Fubrakiewicz).



H-22

39961

Country : Yugoslavia
Category :
Abs. Jour. :
Author : Arsenijevic, M., Jancic, M., Trifunovic, D., and
Institut. : Kustudic, D.
Title : Not given
Effect of Microadditions of Products from the Dry Distillation of Bituminous Coal on the Bulk Density of a Number of Yugoslav and Other Coals
Orig. Pub. : Tehnika, 13, No 6, [?] (1958); Hem Ind, 12, No 6, 89-96 (1958)
Abstract : The authors have studied the conditions under which the wetting of Yugoslav and imported coals (C) with microadditions of products obtained by the dry distillation of bituminous coal leads to a greater compaction of the charge and raises the bulk density. The effect of the moisture content of the C on the above process is noted. The following increases were obtained in the bulk density of a number of C containing 8-9% H_2O on wetting with the substances indicated: kerosene, 11-15%; light oil (O), 9-13%; heavy O, 6-8%; anthracene O, 2-6%. The presence of ash because of the hydrophilic character of the

Card: 1/2

H-86

H-22

Country : Yugoslavia
Category :

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Abs. Jour. :

Author :
Institut. :
Title :

Orig Pub. :

Abstract : latter lowers the effectiveness of the treatment. For increased coke oven capacity, the authors recommend the wetting of a number of C with microadditions of light, heavy, and anthracene O.

Ya. Satunovskiy

Card: 2/2

MINKOVSKIY, D.I.,kand.tekhn.nauk; KUSTYLO, V.K.,inzh.

Third Interuniversity Conference on Dielectrics and Semiconductors. Izv.vys.uchob.zav.;energ. 3 no.10:118 O '60. (MIRA 13:11)
(Dielectrics) (Semiconductors)

CZECHOSLOVAKIA

KUSTYR, I.; BOZDECH, V.; Veterinary Research Center (Veterinarni Vyzkumne Stredisko), Prague - Motol; Laboratory of Serology, Neurological Clinic of the Member of Academy Honner (Serologicka Laborator Neurologicko Kliniky Akad. Hennera), Prague.

"Preparation and Titration of a Hemolytic Amboceptor of a High Titre."

Prague, Veterinarni Medicina, Vol 11, No 5, May 66, pp 329 - 336

Abstract [Authors' English summary modified]: Hyperimmunization process was investigated on the model action of rabbit hemolysin on sheep erythrocytes; the influence of the time factor, method of application, season of the year, and of sex were studied. A method is described by which a hemolytic amboceptor for the complement fixation with a titre from 2 to 10 times higher than commercially available amboceptors can be prepared. The immunization scheme which lasts for 28 days includes 7 intradermal, and 4 intravenpus applications of the antigen. 5 figures, 3 Tables, 12 Western, 4 Czech references. (Manuscript received 30 Dec 65).

1/1

PAN'V, Dmitriy Yur'yevich; KUSOV [illegible], [illegible]; [illegible]., red.

[Slide rule] Schetnaia lineika. Izd.2., ispr. Moskva, Izd-vo Nauka, 1964. 107 p. (MIRA 17:8)

ARKHIPOV, Vadim Matveyevich; BUSYGIN, Yevgeniy Prokof'yevich; VOROB'YEV, N.I., prof., red.; KUZURGASHEV, I.M., red.

[Antarctica and its exploration by Soviet scientists] Antarktida i ee issledovanie sovetskimi uchenymi. Kazan' Izd-vo Kazanskogo univ., 1959. 49 p. (MIRA 15:3)
(Antarctic regions—Soviet exploration)

MAL'KOVSKIY, Georgiy Pavlovich; SHCHEDROV, V.S., prof., red.; KUSURGASHEV, I.M., red.; SEMENOV, Yu.P., tekhn.red.

[Mass and energy in modern physics] O masse i energii v sovremennoi fizike. Kazan', Izd-vo Kazanskogo univ., 1961. 178 p. (MIRA 15:2)

(Mass (Physics)) (Force and energy)

GROMAKOV, S.D.; KUSURGASHEV, I.M., red.; SEMENOV, Yu.P., tekhn. red.

[Some laws governing equilibrium systems] O nekotorykh zakonomernostiakh ravnovesnykh sistem. Kazan', Izd-vo Kazanskogo univ., 1961. 600 p. (MIRA 15:6)

(Systems (Chemistry))
(Phase rule and equilibrium)

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32
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AUTHOR: Kusy, Vladimir; Svaro, Frantisek; Cabal, Jiri

ORG: Chemical Enterprises of Czechoslovak-Soviet Friendship (Chemicke zavody Ceskoslovensko-sovetskeho pratelstvi); Research Institute for Chemical Utilization of Coal, Zaluzi (Vyzkumny ustav pro chemicke vyuziti uhli)

TITLE: Preparative gas chromatograph with a large injection and with automatic collection of fractions

SOURCE: Chemicke listy, no. 8, 1965, 978-984

TOPIC TAGS: gas chromatography, IR spectroscopy, chemical laboratory apparatus

ABSTRACT: The authors designed an automatic preparative apparatus suitable for a sample injection of 25 ml; they based their suggestion on experience gained in operating a small apparatus. The design allows automatic extraction of fractions, and is independent of time. The design and operating methods are described. Temperatures up to 200°C may be maintained in the apparatus; it operates in conjunction with analytical chromatography and infrared spectroscopy. Orig. art. has: 6 figures and 2 tables. [JPRS]

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11,1210

AUTHOR: Kusý, Vladimír

TITLE: Vapour-Phase Partition Chromatography of Mixtures of Hydrogen, Paraffins and Olefins, Using the Micro-Flare Detector

PERICDICAL: Chemické listy, 1960, Vol.54, No.11, pp.1168-1172

TEXT: An account is given of a further modification of the micro-flare detection method in vapour-phase partition chromatography developed originally by R.P.W.Scott and adapted later by M.M.Wirth (Vapour Phase Chromatography, ed. by D.H.Desty, Butterworth Scientific Publications, London, 1957). Wirth established that using hydrogen as the carrier gas - as recommended by Scott - it was not possible to obtain a straight base line because of the high diffusitivity of hydrogen, and used nitrogen instead as a carrier, the column effluent being injected into the constant hydrogen stream and burnt at the tip of the capillary. The present author has now adopted in broad outlines the principle of Wirth with only minor modifications and the present paper gives constructional and operating details of the method when applied to the partition of mixtures of hydrogen, the lower paraffins and

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